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(74) Agent: McMILLIAN, Nabeela, R.; Marshall, Gerstein & Borun LLP, 233 South Wacker Drive, 6300 Sears Tower, Chicago, IL 60606 (US).

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(71) Applicant (for all designated States except US): THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS [US/US]; 352 Administration Building, 506 South Wright Street, Urbana, IL 61801 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KUMAR, Nalin, M. [GB/US]; 933 Elmwood Avenue \_\_\_\_\_, Wilmette, IL 60091 (US). YUE, Beatrice [US/US]; 870 Summit Drive, Deerfield, IL 60015 (US). SIDDIQUI, Shahid [IN/US]; 422 Vine Court, Wilmette, IL 60091 (US). MALIK, Asrar, B. [US/US]; 821 Merrill Woods, Hinsdale, IL 60521 (US). PULIDO, Jose, S. [US/US]; 15665 Mark Drive, Brookfield, WI 53005 \_\_\_\_\_ (US).

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(54) Title: SILENCING OF TGF-BETA RECEPTOR TYPE II EXPRESSION BY siRNA

(57) Abstract: The present application is directed to siRNA-based silencing of the type II receptor of TGFβ. siRNAs that target this receptor abrogate the receptor protein and transcript, TGFβ-mediated processes such as fibronectin assembly and cell migration also are inhibited and the molecules of the invention are efficacious in reducing the inflammatory response and matrix deposition. These findings show that siRNAs can be successfully delivered both *in vitro* and *in vivo* to regulate the TGFβ type II receptor level and modulate wound response. Methods and compositions exploiting the findings of the present invention have a wide-ranging application, extending from treatment of disorders of the eye to other organs and tissues throughout the body.

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